

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE X WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/abd. _____

DATE FILED 3-7-84

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. U-7496 INDIAN _____

DRILLING APPROVED: 3-8-84 - OIL

SPUDDED IN: _____

COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: _____

DATE ABANDONED: 1-1-85 LA ALL Recircled

FIELD: WILDCAT 3/86 Undesignated

UNIT: VIRGIN MESA

COUNTY: SAN JUAN

WELL NO. VIRGIN MESA UNIT FED. 1-12 API #43-037-30992

LOCATION 1090' FSL FROM (N) (S) LINE. 750' FWL FT. FROM (E) (W) LINE. SWSW 1/4 - 1/4 SEC. 12

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				<u>38S</u>	<u>25E</u>	<u>12</u>	<u>MCOR OIL & GAS CORP.</u>



POWERS ELEVATION

OIL WELL ELEVATIONS — LOCATIONS
ENVIRONMENTAL — ARCHAEOLOGICAL SERVICES
800 SOUTH CHERRY STREET, SUITE 1201
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

March 5, 1984

State of Utah
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

RECEIVED
MAR 7 1984

RE: Filing Application for Permit to Drill
MCOR Oil & Gas Corp.
✓ #1-12 Virgin Mesa Federal
SW SW Sec. 12 T38S R25E
1090' FSL & 750' FWL
San Juan County, Utah

DIVISION OF
OIL, GAS & MINING

Gentlemen:

Enclosed are three copies each of Federal A.P.D. Form 3160-3, the Location and Elevation Plat, the Drilling Program, and the Blowout Preventer Diagram for the above-referenced well location.

Please return the approved copies to:

Mr. Floyd Meade
MCOR Oil & Gas Corp.
3033 Northwest 63rd Street
Suite 250E
Oklahoma City, Oklahoma 73116

Very truly yours,

POWERS ELEVATION

Connie L. Frailey

Connie L. Frailey
Vice President, Environmental Services

CLF/cw
Enclosure

cc: Mr. Floyd Meade

13

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

MCOR Oil & Gas Corp. *ATTN: FLOYD MEADE*

3. ADDRESS OF OPERATOR

3033 Northwest 63rd St., Suite 250E, Oklahoma City, OK 73116

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

1090' FSL & 750' FWL (SW SW) ✓

At proposed prod. zone
same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Location is 14.8 miles northeast of Hatch Trading Post, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

750'

16. NO. OF ACRES IN LEASE

679.81

17. NO. OF ACRES ASSIGNED
TO THIS WELL

80 ✓

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6300' *sk*

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5710' GR

22. APPROX. DATE WORK WILL START*

April 1, 1984

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16" New	Conductor Pipe	60'	Redimix
12 1/4"	8 5/8" New	24# K-55 ST&C	1850'	650 sx Lite plus additives
7 7/8"	4 1/2" New	10.5# K-55 ST&C	6300'	400 sx plus additives

1. Set 60' interval of 16" conductor pipe in 20" hole and cement in place.
2. Drill 12 1/4" hole and set 8 5/8" surface casing to 1850' with good returns.
3. Log B.O.P. checks in daily drill reports and drill 7 7/8" hole to 6300'.
4. Run tests if warranted and run 4 1/2" casing if productive.
5. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

"A" Location and Elevation Plat "I" Fence Diagram
"B" Drilling Program to Accompany A.P.D.
"C" The Blowout Preventer Diagram
"D" Surface Use Program to Accompany A.P.D.
"E" & "E₁" Access Road Maps to Location
"F" Radius Map of Field
"G" & "G₁" Drill Pad Layout, Production Facilities and Cut-Fill Cross Section
"H" Drill Rig Layout

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Floyd Meade

TITLE

Regional Manager Operations

DATE

3/5/84

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: *3/8/84*
BY: *[Signature]*

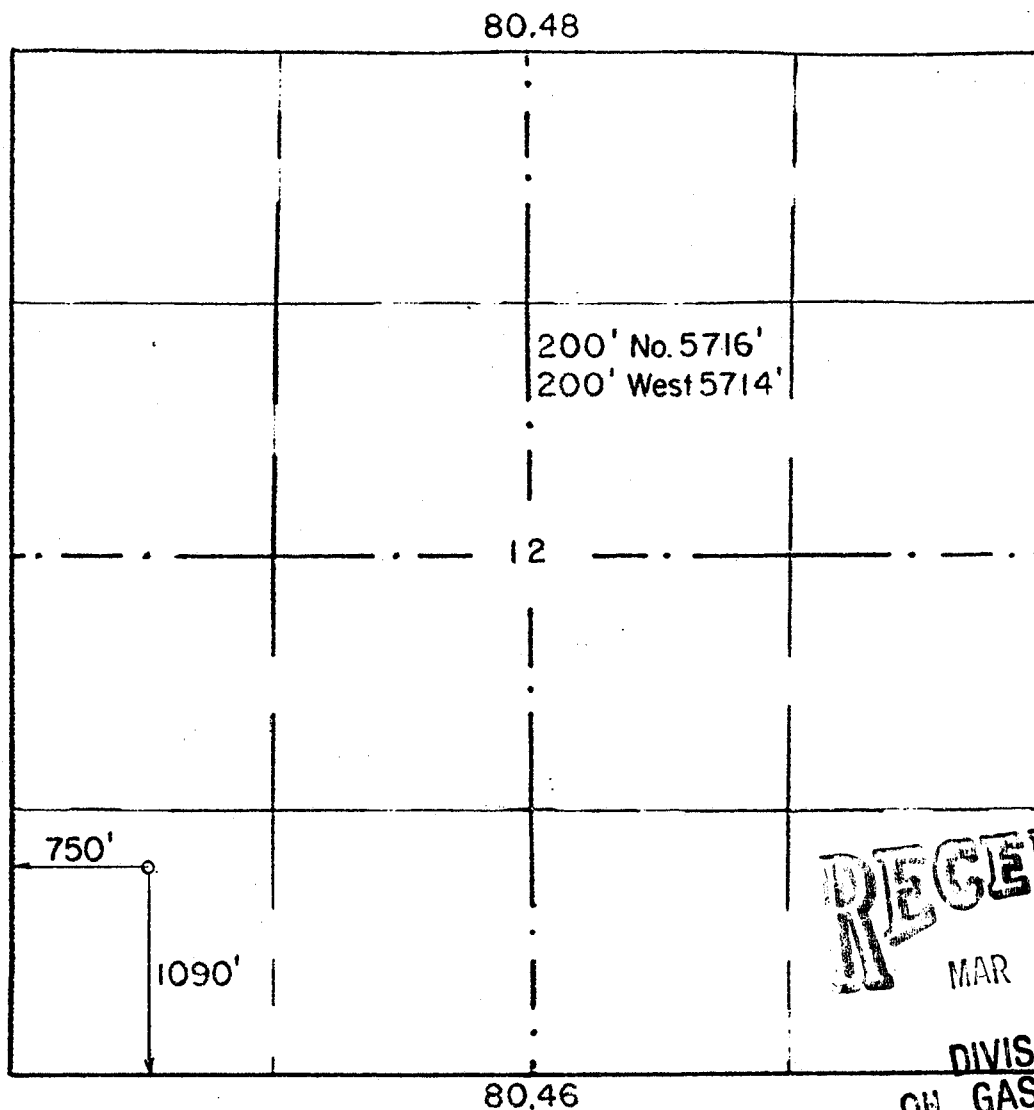
*See Instructions On Reverse Side



POWERS ELEVATION

EXHIBIT "A"

Location & Elevation Plat



Operator MCOR O. & G.		Well name I-12 Virgin Mesa Federal	
Section 12	Township 38 South	Range 25 East	Meridian Salt Lake
Footages 1090' FSL & 750' FWL			County/State San Juan, UTAH
Elevation 5710'	Requested by Floyd Meade		
The above plat is true and correct to the best of my knowledge and belief.			
3-1-84		<i>Gerald G. Huddleston</i> Gerald G. Huddleston, L.S.	

EXHIBIT "B"

DRILLING PROGRAM TO

ACCOMPANY A.P.D. FORM 3160-3

Attached to Form 3160-3
MCOR Oil & Gas Corp.
#1-12 Virgin Mesa Federal
SW SW Sec. 12 T38S R23E
1090' FSL & 750' FWL
San Juan County, Utah

RECEIVED
MAR 7 1984

**DIVISION OF
OIL, GAS & MINING**

1. The Geologic Surface Formation

The surface formation is the Dakota.

2. Estimated Tops and Bottoms of Important Geologic Markers

Chinle	1820'	
Upper Ismay	5823'	- 6011'
Hovenweep Shale	6011'	- 6055'
Lower Ismay	6055'	- 6125'
Gothic Shale	6125'	- 6145'
Desert Creek	6145'	- 6218'
Chimney Rock Shale	6218'	- 6240'
Akah	6240'	
Total Depth	6300'	

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals and Lessee's or Operator's Plans for Protection of Such Resources

Upper Ismay	5823'	Oil
Desert Creek	6145'	Oil

Casing will be run to total depth and cemented across zones. Water bearing zones (2000'-4000') will be protected with weighted mud.

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth cased and cemented. All oil and gas shows will be tested to determine commercial potential.

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>SETTING DEPTH INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE & JOINT</u>	<u>NEW OR USED</u>
20"	0 - 60'	60'	16"	Conductor Pipe	New
12 1/4"	0 - 1850'	1850'	8 5/8"	24#, K-55, ST&C	New
7 7/8"	0 - 6300'	6300'	4 1/2"	10.5#, K-55 ST&C	New

Cement Program:

Conductor Pipe: Redimix, cement in place to surface.

Surface Casing: 650 sacks Lite, plus 2% CaCl, followed with 300 sacks Class "B", plus 2% CaCl. Circulate to surface.

Production Casing: 400 sacks, plus 10% salt. 1000' linear fill-up.

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

Accessories to BOP will include an upper kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

<u>DEPTH</u>	<u>TYPE</u>	<u>WEIGHT#/gal.</u>	<u>VISCOSITY-sec./qt.</u>	<u>FLUID LOSScc</u>	<u>Ph</u>
0-1850'	water with gel	8.8	35	N/C	8
1850-2500'	water	8.3	----	-----	---
2500-5500'	chemical	11 - 12	40	15	11
5500-TD	chemical	11 - 12	45	8 - 10	11

7. The Auxiliary Equipment to be Used

- (a) An upper and lower kelly cock will be kept in the string.
- (b) A float will not be used at the bit.
- (c) A mud logging unit will be monitoring the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

- (a) Drill Stem Tests will be run in the Upper Ismay (5820'-5940') and Desert Creek (6200'-6260').
- (b) The logging program will consist of the following:

DIL-SFL	TD to base of surface casing
BHC Sonic	TD to base of surface casing
FDC-CNL	TD to 4000'
Dipmeter	TD to 4000'
- (c) Cores will be run in the Upper Ismay (5820'-5940') and Desert Creek (6200'-6260').
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted for approval.
- (e) Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log (Form 3160-4) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the District Manager.

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for April 1, 1984, or as soon as possible after examination and approval of drilling requirements. Operations should cover 20 days for drilling and 15 days for completion; up to six months for clean-up depending on the weather.

The operator will contact the San Juan Resource Area at 801-587-2201, 48 hours prior to beginning any dirt work on this location.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours of spudding, reporting the spud date and time. The Sundry will be sent to the District Manager.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the Moab BLM District Office, P.O. Box 970, Moab, Utah 84532.

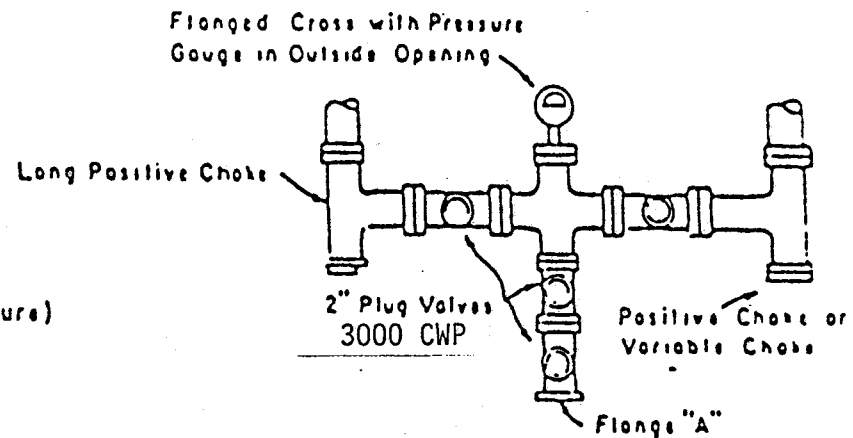
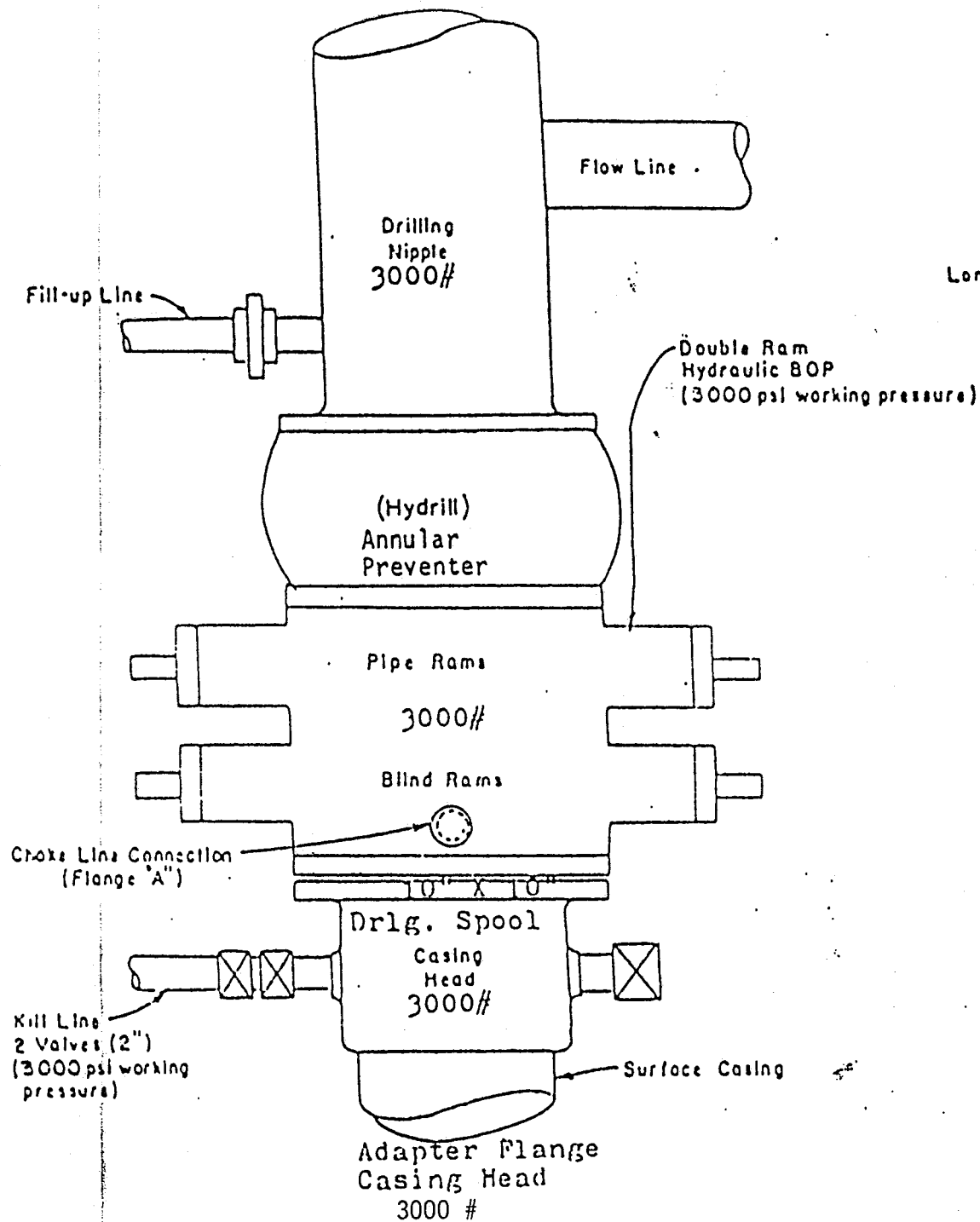
If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig.

If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than the first business day following the date on which the well is placed on production.

No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Manager. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.

Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager or his representative, or the appropriate Surface Managing Agency.

A first production conference will be scheduled within 15 days after receipt of the first production notice. The operator will schedule the conference with the San Juan Area Manager.



PLAN VIEW-CHOKE MANIFOLD

EXHIBIT "C"
BLOWOUT PREVENTER
DIAGRAM

OPERATOR MCOR Oil & Gas Corp. DATE 3-7-84
WELL NAME Virgin Mesa ^{Unit} #1-12
SEC SWSW 12 T 38S R 28E COUNTY San Juan

43-037-30992
API NUMBER

Fed.
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/> INDEX	<input type="checkbox"/> HL	<input type="checkbox"/>
<input type="checkbox"/> NID	<input type="checkbox"/> PI	<input type="checkbox"/>
<input type="checkbox"/> MAP	<input type="checkbox"/>	<input type="checkbox"/>

PROCESSING COMMENTS:

No other wells within 1000'
Neck Water
Exception location
✓

APPROVAL LETTER:

SPACING: ☒ A-3 VIRGIN MESA ☐ c-3-a CAUSE NO. & DATE
UNIT
☐ c-3-b ☒ c-3-c

SPECIAL LANGUAGE:

1- Water
2- Exception location submitted
Action:
Rule C-27, Gas Flaring

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER _____

☐ UNIT _____

☐ c-3-b

☒ c-3-c

☒ CHECK DISTANCE TO NEAREST WELL.

☒ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

March 8, 1984

MCOR Oil & Gas Corporation
Attn: Floyd Meade
3033 Northwest 63rd Street, Suite 250E
Oklahoma City, Oklahoma 73116

RE: Well No. Virgin Mesa Unit Fed. 1-12
SWSW Sec. 12, T. 38S, R. 25E
1090' FSL, 750' FWL
San Juan County, Utah

Gentlemen:

Approval to drill the above referenced oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.


In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify R. J. Firth, Chief Petroleum Engineer, Telephone (801) 533-5771 (Office), 571-5068 (Home).
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.
5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

MCOR Oil & Gas Corporation
Well No. Virgin Mesa Unit Fed. #1-12
March 8, 1984
Page 2

The API number assigned to this well is 43-037-30992.

Sincerely,



R. J. Firth
Chief Petroleum Engineer

RJF/as
cc: Minerals Management
Encl.

3162 (U-065)
(U-7496)

Moab District
P. O. Box 970
Moab, Utah 84532

DEC 04 1984

MCOR Oil and Gas Corporation
3033 Northwest 63rd Street, Suite 250E
Oklahoma City, OK 73116

Re: Application for Permit to Drill
Well No. Virgin Mesa Federal 1-12
Sec. 12, T. 38 S., R. 23 E.
San Juan County, Utah
Lease U-7496

Gentlemen:

The referenced Application for Permit to Drill was received in this office on March 8, 1984. Deficiencies in the APD were pointed out to you by letter on April 2, 1984. These deficiencies were due to a lack of Designations of Operator from the Lessees of Record Title.

As of this date our records indicate that these items have yet to be provided to this office. We are therefore returning your application unapproved.

If you have future plans of drilling this well, a new APD will have to be submitted, along with the deficient items identified.

If you have any questions, please contact the Branch of Fluid Minerals (801) 259-6111.

Sincerely,

/S/ GENE NODINE
District Manager

Enclosure:
Application for Permit to Drill

cc: San Juan Resource Area

CFreudiger/cf 12/3/84

bcc: State of Utah, ✓
Division of Oil, Gas & Mining

RECEIVED
DEC 06 1984

DIVISION OF
OIL, GAS & MINING

CFreudiger 12/3/84

Jackson 12/3

J. Trace 12/13/84



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 4, 1985

MCOR Oil & Gas Corporation
3033 Northwest 63rd Street, Suite 250 E
Oklahoma City, Oklahoma 73116

Gentlemen:

Re: Well No. Virgin Mesa Fed 1-12 - Sec. 12, T. 38S., R. 25E.
San Juan County, Utah - API #43-037-30992

In concert with action taken by the Bureau of Land Management, December 4, 1984, approval to drill the above referred to well is hereby rescinded without prejudice.

A new "Application for Permit to Drill" must be filed with this office, for approval, prior to future drilling of the subject location.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza".

John R. Baza
Petroleum Engineer

cc: Dianne R. Nielson
Ronald J. Firth
File

0051S/3